



Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :

American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH01232880

Applicant: LIFESTRENGTH LLC 1224 S. RIVER ROAD
SUITE B100 ST. GEORGE
UTAH 84790 USA
Attn: HOWARD HARMER

Date: Nov 23, 2011

Sample Description:

Ten (10) pieces of submitted sample said to be :

Item Name : **Silicon Band with Mylar and Negative Ion Powder**
Buyer : Steve Schone
Country of Origin : China

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted samples	German Food, Commodities and Feeding Act(LFGB), Plastic Recommendation XV, Requirement on Volatile Organic Matter in Silicone Rubber	See Comment
	German Food, Commodities and Feeding Act(LFGB), Plastic Recommendation XV, Requirement on Peroxide Residues in Silicone Rubber	See comment

Comment:

The testing scope of the standards were not applicable to the tested component. However, the test results of the samples met the related requirements as stated in this report.

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	Phthalate content requirement	See details enclosed
	Sensory test	See details enclosed
	Polycyclic Aromatic Hydrocarbons (PAHs) content	See details enclosed

For and on behalf of :
Intertek Testing Services HK Ltd.

Karen S.C. Ng
General Manager





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Tests Conducted

1 Volatile Organic Matter of Silicone Rubber

With reference to LFGB plastic recommendation BII XV.

Result: 0.29% (w/w)

Requirement : 0.5% (w/w) (max.)

Tested Component : Black silicone (band).

Date sample received : Oct 18, 2011 & Oct 27, 2011

Testing period : Oct 18, 2011 to Nov 02, 2011

2 Sensory Evaluation

With reference to §64 LFGB L00.90-6.

Test Procedure:

Sample was kept at ambient temperature (20-28°C) and relative humidity (40-80%) for 20 hours. Odour was tested with 5 panelists by smelling immediately after opening the vessel.

Result:

Odour : No perceptible odour

Date sample received : Oct 18, 2011

Testing period : Nov 18, 2011 to Nov 21, 2011

3 Peroxide Residues of Silicone Rubber

With reference to LFGB plastic recommendation BII XV.

Result: No positive reaction.

Requirement : No positive reaction to peroxides

Tested Component : Black silicone (band).

Date sample received : Oct 18, 2011 & Oct 27, 2011

Testing period : Oct 18, 2011 to Nov 02, 2011



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Tests Conducted

4 Polycyclic Aromatic Hydrocarbons (PAHs) Content

By solvent extraction and determined by Gas Chromatographic - Mass Spectrometric Detector (GC-MSD).

Test Results:

Compound	Result (ppm)	
	(1)	(2)
Naphthalene	<0.1	<0.1
Acenaphthylene	<0.1	<0.1
Acenaphthene	<0.1	<0.1
Fluorene	<0.1	<0.1
Phenanthrene	<0.1	<0.1
Anthracene	<0.1	<0.1
Fluoranthene	<0.1	<0.1
Pyrene	<0.1	<0.1
Chrysene	<0.1	<0.1
Benzo[a]anthracene	<0.1	<0.1
Benzo[b]fluoranthene	<0.1	<0.1
Benzo[k]fluoranthene	<0.1	<0.1
Benzo[a]pyrene	<0.1	<0.1
Dibenzo[a,h]anthracene	<0.1	<0.1
Indeno[1,2,3-c,d]pyrene	<0.1	<0.1
Benzo[g,h,i]perylene	<0.1	<0.1
Sum of PAHs	<0.1	<0.1

Remark : < = Less than
 ppm = parts per million = mg/kg

Tested Components :

- (1) Transparent plastic (silicon band).
- (2) Dull black/ yellow plastic (silicon band).

Date sample received : Oct 18, 2011
 Testing period : Oct 18, 2011 to Oct 27, 2011



Test Report

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Tests Conducted

5 Total Lead and Cadmium Content

By microwave digestion and followed by Inductively Coupled Plasma (ICP) Spectrophotometric analysis.

<u>Element</u>	<u>Result (ppm)</u>	<u>Requirement (ppm)</u>
	<u>(1/2/3)</u>	
Lead (Pb)	<20	100
Cadmium (Cd)	<10	100

Remark :

< = Less than

ppm = parts per million = mg/kg

Tested Components :

- (1) Dull black plastic (silicon band).
- (2) Yellow plastic (wording on silicon band).
- (3) Transparent plastic (silicon band).

Date sample received : Oct 18, 2011 & Oct 25, 2011

Testing period : Oct 18, 2011 to Oct 27, 2011

6 Phthalate Content Test

By solvent extraction and followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis.

	<u>Result (%. w/w)</u>	
	<u>(1/3)</u>	<u>(2)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01
Diethylhexyl phthalate (DEHP)	<0.01	<0.01
Benzylbutyl phthalate (BBP)	<0.01	<0.01
Diisononyl phthalate (DINP)	<0.01	<0.01
Di-n-octyl phthalate (DnOP)	<0.01	<0.01
Diisodecyl phthalate (DIDP)	<0.01	<0.01

Remark : < = Less than

Tested Components :

- (1) Transparent plastic (silicon band).
- (2) Silver colour laser plastic label (silicon band) (internal).
- (3) Dull black/ yellow plastic (silicon band).

Date sample received : Oct 18, 2011, Oct 26, 2011

Testing period : Oct 18, 2011 to Oct 27, 2011

End of report

